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Abstract of the Invention**METHOD FOR INCREASING LIGHT OLEFIN**

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YIELD BY CONVERSION OF A HEAVY**HYDROCARBON FRACTION OF A PRODUCT TO LIGHT OLEFINS**

A method for increasing light olefin yield during conversion of oxygenates to olefins comprising: contacting an oxygenate feed in a primary reactor with a non-zeolitic molecular sieve catalyst under conditions effective to produce a first product comprising light olefins; separating the first product into light olefins and a heavy hydrocarbon fraction; feeding the heavy hydrocarbon fraction either back into the primary reactor or to a separate auxiliary reactor; and, subjecting the heavy hydrocarbon fraction to conditions effective to convert at least a portion of the heavy hydrocarbons to light olefins.